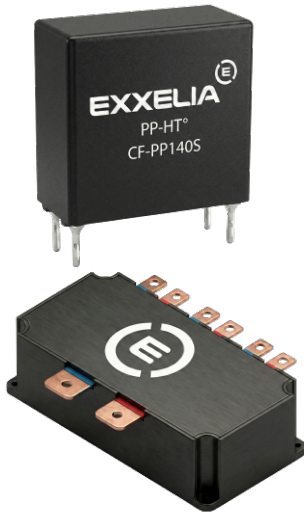
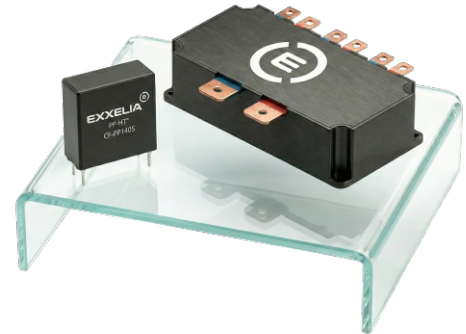


## Exxelia Introduces CF-PP140 Film Capacitor Range for High-Temperature and High-Energy Applications

May 27, 2026 - Paris, France – Exxelia announces the launch of a new range of polypropylene film capacitors, CF-PP140, developed to address the growing demand for compact, high-energy solutions capable of operating at elevated temperatures in mission-critical environments.

The new CF-PP140 will be showcased for the first time at PCIM in Germany—at booth 6-127.



The CF-PP140 forms a comprehensive range of standard components designed for applications requiring high energy density in a compact footprint. They support operating voltages from **450 V to 1500 V**, offer an energy density of up to **250 J/L** while pushing the polypropylene operating temperature up to **140°C**. These capacitors feature a standard footprint to ease system integration, making them suitable for constrained electronic architectures.

Complementary, Exxelia offers a higher level of integration by combining a CF-PP140 and busbar from Exxelia SVM into fully customized “Power Block” capacitors. These tailored blocks can meet customers' specific size and electrical performance requirements, even in the most extreme applications.

The CF-PP140 product series provide an outstanding operating temperature capability of **140°C**, compared to a typical **105°C** for similar polypropylene film capacitors (PP), along with an energy density increase of approximately **30%** versus competing solutions. For custom designs, energy density can reach **250 J/L**, depending on configuration and application constraints.

The CF-PP140 capacitor range is intended for demanding applications where thermal constraints, compactness, and reliability are critical. Typical use cases include **unmanned aerial vehicles (UAVs)**, **eVTOL aircraft**, and **heavy vehicles such as agricultural tractors**, where power electronics are exposed to high temperatures and limited volume.

### About Exxelia

Exxelia is a leading global designer and manufacturer of high performance passive components and subsystems with factories in France, Morocco, United States, India and Vietnam. Exxelia's product portfolio includes a wide range of capacitors (film, tantalum, ceramic and electrolytic capacitors) and ruggedized magnetic products (inductors, transformers, rotor, stator, etc.), resistors, slip rings, position sensors, medical sensors and high-precision mechanical parts. Recognized worldwide for its advanced design and technical expertise, Exxelia develops both “catalog” and “custom” products exclusively serving high-reliability markets such as aeronautic, space, defense, medical, transportation, telecommunication infrastructure and advanced industrial applications. Additional information can be found at [exxelia.com](http://exxelia.com).

### Press Contact :

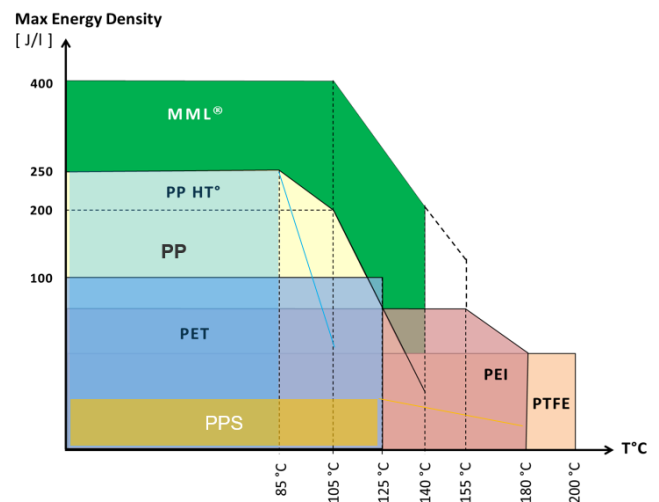
**Stéphane PERES**  
Digital Marketing Manager  
Tel : +33 (0)1 49 23 10 53  
[stephane.peres@exxelia.com](mailto:stephane.peres@exxelia.com)

With the **CF-PP140** range, Exxelia offers:

- Film capacitor solutions with operating temperatures up to **140°C** for mission-critical applications
- High energy density in compact packaging, up to **250 J/L**, to fit tight mechanical environments
- Customizable footprints and integration options to adapt to application-specific constraints and reduce installation time
- Self-Healing Technology: Features advanced SH (Self-Healing) properties that clear localized insulation breakdowns, ensuring continuous operation and extended service life.
- SMD and DIL connection on request

## How does CF-PP140 (PP-HT) compares vs other dielectrics ?

CF-PP140, based on high-temperature polypropylene (PP-HT<sup>®</sup>), is positioned between standard polypropylene and high-temperature polymers. It extends PP operation up to 140 °C while maintaining a high energy density (up to 250 J/L). Compared with PET or PPS, CF-PP140 offers higher energy density at elevated temperatures, and compared with PEI or PTFE, it provides a more compact solution with significantly better volumetric efficiency. This balance makes CF-PP140 suitable for space and temperature-constrained power electronics applications.



The CF-PP140 range expands Exxelia’s portfolio of film capacitors for harsh environments, addressing the evolving requirements of engineers and procurement teams in aerospace, transportation, and industrial power electronics.

### About Exxelia

Exxelia is a leading global designer and manufacturer of high performance passive components and subsystems with factories in France, Morocco, United States, India and Vietnam. Exxelia’s product portfolio includes a wide range of capacitors (film, tantalum, ceramic and electrolytic capacitors) and ruggedized magnetic products (inductors, transformers, rotor, stator, etc.), resistors, slip rings, position sensors, medical sensors and high-precision mechanical parts. Recognized worldwide for its advanced design and technical expertise, Exxelia develops both “catalog” and “custom” products exclusively serving high-reliability markets such as aeronautic, space, defense, medical, transportation, telecommunication infrastructure and advanced industrial applications. Additional information can be found at [exxelia.com](http://exxelia.com).

### Press Contact :

**Stéphane PERES**  
 Digital Marketing Manager  
 Tel : +33 (0)1 49 23 10 53  
[stephane.peres@exxelia.com](mailto:stephane.peres@exxelia.com)